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(71) Applicant (for all designated States except US): **GLUCON INC.** [US/US]; 644 COLLEGE AVENUE, BOULDER, Colorado 80302 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **PESACH, Benny** [IL/IL]; 18 SHIR HASHIRIM STREET, 48072 ROSH-HA'AYIN (IL). **NAGAR, Ron** [IL/IL]; 32 FRUG STREET, 63417 TEL-AVIV (IL). **BITTON, Gabriel**

[IL/IL]; 621/5 HADAF HAYOMI STREET, 97279 JERUSALEM (IL). **ADORAM, Avner** [IL/IL]; 18B WEIZMAN AVENUE, 47211 RAMAT HASHARON (IL).

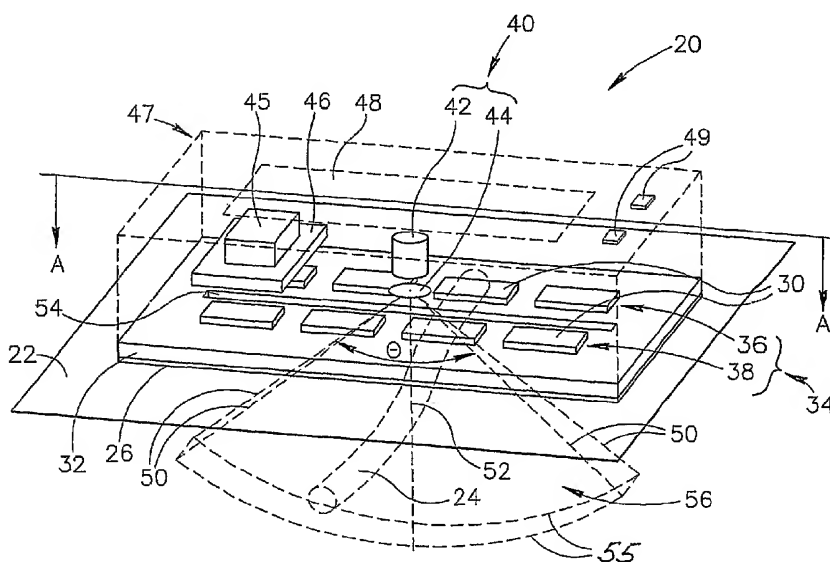
(74) Agents: **FENSTER, Paul** et al.; FENSTER & COMPANY, INTELLECTUAL PROPERTY 2002 LTD., P. O. BOX 10256, 49002 PETACH TIKVA (IL).

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(54) Title: WEARABLE GLUCOMETER



(57) Abstract: Apparatus for assaying an analyte in blood in a patient's blood vessel comprising: a light provider comprising at least one light source that illuminates a tissue region in which a blood vessel is located with light that stimulates photoacoustic waves in the region; at least one acoustic transducer that generates signals responsive to the photoacoustic waves; a controller that receives the signals and processes them to determine which are responsive to photoacoustic waves that originate in the blood vessel and uses the determined signals to assay the analyte; wherein, the light provider and at least one transducer define a field of view that overlaps the blood vessel, said field of view having a central region and a lateral extent greater than about 4 mm.

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